

## Microplate Thermal Shift Assay Apparatus for Ligand Development and Multi-Variable Protein Chemistry Optimization

### *Abstract*

5           The present invention provides an assay apparatus for that includes a  
temperature adjusting means for simultaneously heating a plurality of samples,  
and a receiving means for receiving spectral emission from the samples while the  
10       samples are being heated. In further aspects of the invention, the receiving means  
can be configured to receive fluorescent emission, ultraviolet light, and visible  
light. The receiving means can be configured to receive spectral emission from  
the samples in a variety of ways, e.g., one sample at a time, simultaneously from  
more than one sample, or simultaneously from all of the samples. The  
15       temperature adjusting means can be configured with a temperature controller for  
changing temperature in accordance with a pre-determined profile.

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